

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Wachtler et al.

Division of Serial No. 07/966,645 (TI-17462.1X)

Filed Herewith

For: HDI LAND GRID ARRAY APCKAGED DEVICE HAVING
ELECTRICAL AND OPTICAL INTERCONNECTS

Art Unit

Examiner

Commissioner for Patents
Washington, D. C. 20231

Sir:

PRELIMINARY AMENDMENT

Prior to the first Office action, please amend the above identified application as follows:

In the specification:

Page 1, after the title, add:

"[0000.1] This application is a division of Serial No. 07/966,645, filed October 26, 1992."

Page 10, line 8, change "or the" to --problems or--.

Page 13, line 28, change "takes" to --makes--.

Page 14, line 3, change "guide" to --guide 23--.

Page 17, line 15, change “photo optical quality material” to --material that facilitates optical interconnection between semiconductor device 16 and an optical wave guide, another semiconductor device, or any source of an optical signal--.

line 15, change “billed” to --filled--.

Page 18, line 1, change “Ti/CuT” to --Ti/Cu/Ti--.

Page 19, line 7, change “metal 18” to --thin film overlay 18--.

In the claims:

Amend claim 1 as follows:

1. (Amended) A device comprising:

a package having a cavity therein;

a semiconductor device in said cavity, said semiconductor device having at least one optical receiver and/or transmitter adjacent a surface of said semiconductor device facing away from said package; and

a thin overlay electrically connecting bond pads on said semiconductor device to electrically conductive pads on a layer of said thin film overlay facing away from said semiconductor device.

Amend claim 3 as follows:

3. (Amended) The device of Claim 2, in which the dimensions of said [package] includes a] cavity [that] match[es] or exceed[s] the dimensions of the semiconductor device.

Cancel claims 26 to 44.

REMARKS

The claims elected in the parent application have been cancelled.

This preliminary amendment is filed to correct errors of an apparent nature and to more fully claim the subject matter which Applicants regard as the invention.

Action and allowance are respectfully requested.

Respectfully submitted,



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